Hazardous Materials Business Plan Training Topic 1

Persons Trained: Hazardous Materials/Waste Handlers
(Annual Training Requirement)

LEARNING OBJECTIVES

- **Terminal Learning Objective:**

Meet the Hazardous Materials Business Plan annual training requirement for hazardous material and hazardous waste training.

- **Enabling Learning Objectives:**
  - Identify unit's HM/HW.
  - Locate unit's MSDS Binder.
  - Know the difference between HM and HW
  - Safely handle and store HM/HW.
  - Describe HM/HW recordkeeping needs.

BACKGROUND

- We use hazardous materials daily in maintenance, repair, and cleaning activities.

- Some hazmat processes result in hazardous waste being generated (used oil, waste paint, used batteries, etc).

UNIT RESPONSIBILITIES

- Develop and implement a written plan and procedure for HM/HW management that meets requirements of MCO 5100.29A & OPNAVINST 4790.2H, Station Safety Office, and Environmental Department policies.
- Comply with applicable Federal, State, and local laws and regulations applicable to HM and the safety and health of HW operations.
- Establish procedures to control, track, and reduce the variety and quantities of HM in use, in storage or stocked, and disposed of as HW.

REGULATIONS

- Protecting workers that handle hazardous material
  - OSHA, 29CFR
  - MCO 5100.29A
  - Station Safety Order

REGULATIONS

- Protecting workers and the environment from the hazardous wastes generated. Requires annual training for workers handling hazmat
  - EPA, 40 CFR
  - California Health and Safety Code Division 20
  - Title 22 **C**alifornia **C**ode of **R**egulations Division 4.5
  - MCO P5090.2A Environmental Compliance Manual
  - Hazardous Waste Management Plan, StaO P5090.5_

HAZARDOUS MATERIALS

- Hazardous Materials or “hazmat”: chemical products that, because of their toxicity or chemical properties, pose physical or health risks to humans or to our environment.
- Hazmat is good material, yet to be used:
  - POL’s (hydraulic fluid, oil, JP-5, diesel fuel)
  - Batteries of any type
  - Detergents & Cleaners
  - Aerosols (any type)
  - Paints & Solvents
  - Gasoline
  - Adhesives

AUTHORIZED USE LIST (AUL)

- For our safety and environmental compliance the hazmat we use must be screened and inventoried on the “AUL”
  - AUL is a management tool inventorying hazmat units use.
  - Hazmat on the AUL must be approved by Station Safety, the Industrial Hygienist, and Environmental Department.
  - Hazmat is easily procured from the HazMinCtr.
  - Unit on-hand hazmat limited to a one week’s supply though exceptions can be approved by Safety.

MATERIAL SAFETY DATA SHEETS (MSDS)

- Hazard Communication Standard requirement to provide a safe workplace to hazmat users:
  - Provides detailed hazmat information, first aid, response
  - Required for each chemical in the workplace.
  - Must be readily available at all times.
  - Must be read before working with the hazmat.
- Our unit's MSDS's are located _____.
- Available through DoD Hazardous Material Information and Resource System (HMIRS) web site: http://www.dlis.dla.mil/hmirs/ w/password UAH0897.

CONTAINER LABELS

- Hazmat needs to be labeled:
  - Manufacturer's name, address, and emergency phone number
  - Common chemical name
  - Identify the hazard(s) in English
  - Appropriate hazard warnings (words, DoT labels or placards, NFPA Diamond, HMIS label)
- DD FORM 2522 can replace the manufacturer's label if it needs to be replaced

CROWN
Odorless
Paint Thinner
Excellent Artist Quality Thinner.
Improves Brushing Qualities.
Diluyente de Pinturas Sin Olor
Diluyente de Calidad Superior.
Ayuda la Applicación con Brocha.
Uselo Para Limpiar Madera y Metal.
DANGER!
COMBUSTIBLE LIQUID AND VAPOR.
HARMFUL OR FATAL IF SWALLOWED. VAPOR HARMFUL. INJURIOUS TO SKIN AND EYES.
¡PELIGRO!
INFLAMABLE.
NOCIVO O MORTAL SI SE INGIERE. VAPORES DAÑINOS. DAÑINO PARA LA PIEL Y LOS OJOS.
.946 LITROS (32 OZ. FL.)
See additional warnings and directions for use on other panels.
Leá las demás precauciones en los otros costados del envese.
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HAZMAT PROCUREMENT

- Hazmat is procured from the HazMinCtr.
- Hazmat must be approved on unit's AUL by Safety, Industrial Hygiene, and Environmental.
- Hazardous Waste Coordinator procures hazmat with a request through S-4 then to HazMinCtr.
- Hazmat is picked up from the HazMinCtr or can be delivered.
- Hazmat hand-on stock limited to a 7-day supply.

HAZMAT HANDLING

- Read the MSDS and label for hazmat hazards.
- Wear **P**ersonal **P**rotective **E**quipment (**PPE**).
- Ensure there is adequate ventilation (natural or mechanical).
- Use funnels, drip pans, pads, and shop towels when pouring hazmat.
- Attach grounding and bonding wires when pouring and storing flammable liquids.

HAZMAT STORAGE

- Chemical compatibility (refer to MSDS).
  - Don’t store corrosives with flammables
  - Don’t store flammables with oxidizers
- Flammables in flammable lockers.
- Rotate stock and use within shelf-life:
  - Check shelf-life when new hazmat is received
  - Use the older hazmat first
- Secondary containment.
  - Flammable Storage Lockers
  - Bermed areas

HAZARDOUS WASTE

- Hazardous Waste is hazmat we're gonna throw away because it's used, spent, or no good:
  - Used oil or POL (oil, hydraulic fluid, JP-5, diesel fuel)
  - Aerosol cans
  - Paint chips w/lead or chromates
  - Spent toxic or flammable solvents
  - Used batteries of any type (alkaline, lithium, mercury, etc)
  - Past shelf-life hazmat
  - Spent fluorescent light bulbs
  - Spill debris
  - Ammo boxes & munitions crates (treated

WASTE MANAGEMENT

- **Waste is managed per the Environmental Department's Hazardous Waste Management Plan (HWMP).**
- **HWMP is written to maintain compliance with applicable Federal, State, County of San Diego waste regulations.**
- **Waste Protocol Sheets** (HWMP Chapter 14) **lists each "waste stream" with easily referenced waste management guidance:**
  - Defines the waste stream.
  - Provides container (drum, pail, box, pallet, etc) selection information.
  - Tells how to correctly fill out the waste's container label.
  - Gives the waste's accumulation time limit.
  - Provides waste disposal information.

WASTE HANDLING

- Use appropriate **P**ersonal **P**rotective **E**quipment:
  - Gloves, Goggles, Face Shield, Rubber Apron.
- Use ventilation (natural or mechanical).
- Use funnels, drip pans, pads, shop towels, and a buddy when pouring hazmat to minimize spillage and clean ups.
- Use grounding straps when storing flammables and bonding straps when pouring flammable liquids.
- Do not mix waste streams.

WASTE ACCUMULATION

- Waste Accumulation Site
  - Controlled area (usually fenced and bermed containment cells or fabricated storage shed) used to accumulate regulated waste.
  - Lids and labels on containers.
  - No signs of spillage.
  - Inspected weekly; records maintained for 3 years.

Waste Accumulation (2 of 2)

- Satellite Accumulation Site
  - At or near the point of generation (paint shop, battery shop, hangar deck, admin office, etc).
  - Up to 55-gallons TOTAL HW, not per waste stream. MCO P5090.2A Ch 2
  - Container must be labeled, closed when not in use, and under the control of the operator.
  - Waste is disposed of when:
    - the container is full,
    - 55 gallons is reached, or
    - within nine months, whichever occurs first.
  - Must be approved by Environmental Department and identified on the unit's Business Plan Map.

WASTE MINIZATION

- **Minimize waste at the source:**
  - Use only authorized hazardous materials.
  - Order what you need and use it properly.
  - Keep lids and labels on all containers.
  - Don’t mix waste streams.
  - Use funnels, drip pans, shop towels, and launderable pads.
  - Handle hazmat and waste carefully to reduce spills
- **Recycle or Reuse:**
  - Return unwanted hazmat to the HazMinCtr
  - Recycle paper, cardboard, plastic, metal,

RECORDKEEPING & REPORTING

- **Hazardous Material Business Plan**
  - –Issued by SD County through Environmental Dept
  - –Four parts: Inventory, Spill Plan, Training, Spill Equipment
- **Business Plan Training Rosters**
  - –Topics 1-4 required annually
  - –Maintained in Personal Training Folder
- **Unified Program Facility Permit**
  - –Issued by San Diego County Dept of Env Health
  - –Applied for and renewed by the Environmental Dept

Recordkeeping & Reporting (2 of 3)

- **NOTE**: All records are legal documents that must be maintained for at least three years.
- **Waste Disposal Records:**
  - Turn-in Sheets' Pink Copies (most wastes)
  - Waste Transfer Log Books (transferred to another unit)
- **Unit's Spill Log:**
  - Records unit's spills, clean-ups, and storm water releases from secondary containment.

Recordkeeping & Reporting
(3 of 3)

- **AUL up-to-date**
  - Make additions/deletions with Safety Center
  - Procure from the HazMinCtr
    (not the Exchange, GSA, Serv-Mart, or Lowe's)
- **Aerospace Coatings List** (coatings applied to aircraft)
  - Issued by Environmental Dept's Air Quality Engineer
- **Air Quality Permits** (parts washers, paint booths, test cell, etc)
  - Comply with permit conditions
  - Submit Usage Reports to Air Quality Engineer

REVIEW

- Identify hazmat needs and establish a unit AUL through Station Safety, IH, and Environmental Dept.
- Have MSDS's on-hand readily available.
- Ensure all personnel protect against chemical hazards.
- Identify waste streams and ensure personnel know how to containerize, label, and dispose of waste.
- Maintain records for hazmat usage, waste disposal, site inspections, and training.
- Please sign-in on today's Training Roster.

QUESTIONS?

- Contact your unit's Hazardous Waste Coordinator or your Group's Hazardous Waste Manager for hazmat assistance.
- Unit and Group HWCs should contact the Environmental Department's Waste Management Division at 577-1108 for questions regarding this presentation and/or for training assistance.